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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/678,165 10/02/2000		0/02/2000	Roozbeh Atarius	34650-00443USPT	34650-00443USPT 4119	
7590 08/04/2004			EXAM	EXAMINER		
JENKENS &		HRIST, P.C.	CORRIELU	CORRIELUS, JEAN B		
3200 Fountain Place 1445 Ross Avenue				ART UNIT	PAPER NUMBER	] ,
Dallas, TX	75202-27	99		2637	1	$\dot{)}$

DATE MAILED: 08/04/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/678,165	ATARIUS ET AL.					
Office Action Summary	Examiner	Art Unit					
	Jean B Corrielus	2631					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status							
1) Responsive to communication(s) filed on 24 Ju	<u>ine 2004</u> .						
2a) This action is <b>FINAL</b> . 2b) ⊠ This a	action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) 1-14,17-25,27 and 28 is/are pending i	)⊠ Claim(s) <u>1-14,17-25,27 and 28</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>17-25,27 and 28</u> is/are allowed.	Claim(s) <u>17-25,27 and 28</u> is/are allowed.						
6)⊠ Claim(s) <u>1,3-7 and 13</u> is/are rejected.	☑ Claim(s) <u>1,3-7 and 13</u> is/are rejected.						
7)⊠ Claim(s) <u>2 and 8-12</u> is/are objected to.	☑ Claim(s) <u>2 and 8-12</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ acce	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. §§ 119 and 120							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of 13) Acknowledgment is made of a claim for domestic since a specific reference was included in the first 37 CFR 1.78.  a) The translation of the foreign language profits 14) Acknowledgment is made of a claim for domestic reference was included in the first sentence of the	s have been received. s have been received in Application ity documents have been received in (PCT Rule 17.2(a)). of the certified copies not received c priority under 35 U.S.C. § 119(ext sentence of the specification or visional application has been received c priority under 35 U.S.C. §§ 120	on No  ed in this National Stage  d. e) (to a provisional application) in an Application Data Sheet.  eived. and/or 121 since a specific					
Attachment(s)							
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)     Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal P	(PTO-413) Paper No(s) atent Application (PTO-152)					

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#### Allowable Subject Matter

1. The indicated allowability of claims 1, 3-7 and 11 is withdrawn in view of the following discovered reference(s) to Zhou et al, EP 0757450 A2; Philips US Patent No. 6,597,727 and Ostberg Us Patent No. 6,542,562. Rejections based on the above cited reference(s) follow.

### Claim Objections

2. Claim 17, line 2, before "sampled", "," needs to be deleted. Claim 22, line 4, "a highest" should be "the highest". Claim 27, line 2, "the" should be "an". Appropriate correction is required.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zhou In view of Phillips et al US Patent No. 6,597,727.

Zhou et al discloses a method and apparatus (fig. 1) comprising receiving a signal at the input of the receiver (fig. 1) processing the signal to produce at least one first location using circuits (MF and TH) processing said signal (input of the receiver)

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and a generated code (output of DLL1) using said first location (output of TH/peak) to produce one second location. However, Zhou does not teach the further step of decimating the signal prior to generating the first location (peak). In the same field of endeavor, Philips discloses the further step of decimating the signal using element 240 prior to generating the first location (peak) at the output of the correlation circuit 234. given that fact, it would have been obvious to one skill in the art to incorporate such a teaching in Zhou in order to reduce system complexity and at the same time enhance processing speed as a portion of the received signal would have been process by the receiver.

As per claim 3, Philips teaches the used of oversample clock signal to sample the incoming signal see col. 17, lines 28-47. note that oversampling involves the sampling of the incoming signal at a rate multiple of the highest frequency of the incoming signal or a rate multiple of the chip rate. Given that fact, it would have been obvious to one skill in the art to incorporate such a teaching in Zhou so as to satisfy system requirement.

As per claim 4, note at col. 15, lines 40-41, that the system can be CDMA system. Given that, it would have been obvious to one skill in the art to incorporate such a teaching in Zhou and the reason to do so would have been that same as provided above in reference to claim 3.

As per claim 5, the signal is applied to one filter (MF) to produce the first location.

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As per claim 6, note that at col. 18, lines 18-24 that Philips teaches that the a FIR filter is used in combination with the decimation filter. Given that it would have been obvious to one skill in the art to incorporate such a teaching in Zhou the reason to do so would have been that same as provided above in reference to claim 3.

As per claim 7, an output of the filter (MF) is applied to a peak detector (TH) to determine the first location (output of the peak detector (TH).

7. Claims 8-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zhou In view of Phillips et al US Patent No. 6,597,727 and further in view of Ostberg et al US patent No. 6,542,562.

As applied to claim 1 above, Zhou and Philips disclose every feature of the claimed invention but do not explicitly teach the further limitation of forwarding the second location to rake fingers to enable subsequent maximal ratio combining of said signal. Ostberg teaches the further limitations of forwarding the location signal (output of the peak detector) to rake fingers to enable subsequent maximal ratio combining of said signal see fig. 1. given that fact, it would have been obvious to one skill in the art to incorporate such a teaching in Zhou and Philips in order in order to overcome multipath characteristics in the mobile radio channel.

#### Allowable Subject Matter

8 Claims 14, 17-25, 27 and 28 are allowed.

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9. Claims 2, 8-12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

## 10. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

#### or faxed to:

(703) 872-9306

(for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean B. Corrielus whose telephone number is (703) 305-4023. The examiner can normally be reached on Monday-Thursday from 7:00 A.M. to 5:30 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel, can be reached on (703) 308-7728.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3800.

**Primary Examiner** 

TC-2600